

DERWENT-ACC-NO: 2003-649125

DERWENT-WEEK: 200362

COPYRIGHT 2009 DERWENT INFORMATION LTD

TITLE: Ball and roller bearing used in electromagnetic  
clutch of compressors, contains base oil comprising  
preset amount of rust proof additives added to rust proof  
oil, applied to component(s) of bearing

INVENTOR: ISO K; OKITA S

PATENT-ASSIGNEE: NIPPON SEIKO KK[NSEI]

PRIORITY-DATA: 2001JP-216786 (July 17, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP 2003106338 A	April 9, 2003	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP2003106338A	N/A	2002JP-208620
July 17, 2002		

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	C01B33/035	20060101
CIPS	C10M101/02	20060101
CIPS	C10M105/04	20060101
CIPS	C10M105/06	20060101
CIPS	C10M105/18	20060101
CIPS	C10M105/36	20060101
CIPS	C10M105/38	20060101
CIPS	C10M105/40	20060101
CIPS	C10M105/42	20060101
CIPS	C10M107/34	20060101
CIPS	C10M115/08	20060101
CIPS	C10M129/06	20060101
CIPS	C10M129/40	20060101
CIPS	C10M129/42	20060101
CIPS	C10M129/58	20060101
CIPS	C10M129/74	20060101
CIPS	C10M129/76	20060101

CIPS	C10M133/16	20060101
CIPS	C10M135/14	20060101
CIPS	C10M135/18	20060101
CIPS	C10M135/26	20060101
CIPS	C10M135/28	20060101
CIPS	C10M135/36	20060101
CIPS	C10M137/10	20060101
CIPS	C10M169/02	20060101
CIPS	C10M169/04	20060101
CIPS	F16C33/66	20060101
CIPN	C10N10/02	20060101
CIPN	C10N10/04	20060101
CIPN	C10N10/06	20060101
CIPN	C10N10/08	20060101
CIPN	C10N10/10	20060101
CIPN	C10N10/12	20060101
CIPN	C10N10/14	20060101
CIPN	C10N10/16	20060101
CIPN	C10N30/00	20060101
CIPN	C10N30/12	20060101
CIPN	C10N40/02	20060101
CIPN	C10N50/10	20060101

RELATED-ACC-NO: 2009-J89948

ABSTRACTED-PUB-NO: JP 2003106338 A

#### BASIC-ABSTRACT:

NOVELTY - A ball and roller bearing (1) has inner ring (10), outer ring (11), several balls (13) and retainer (12) for maintaining balls in sealed grease. A base oil comprising rust proof oil, is applied to bearing component(s). The rust proof oil comprises 0.1-20 mass% of rust proof additives having carboxylic acid group, carboxylate salt group and ester group. The base oil is mineral oil or synthetic oil.

USE - In electrically wired portion of motor vehicles, engine auxiliary machines such as alternating current dynamo, intermediate pulley, electromagnetic clutch of car air conditioners and gas heat pump and compressors.

ADVANTAGE - The bearing has excellent durability and rust-proof even when

subjected to high temperature, high speed and high load. The bearing suppresses generation of white structure peeling and hence provides favorable peeling prevention effect and improves antiwear quality.

DESCRIPTION OF DRAWING(S) - The figure shows a sectional drawing of ball and roller bearing.

ball bearing (1)

inner ring (10)

outer ring (11)

retainer (12)

ball (13)

seal (14)

EQUIVALENT-ABSTRACTS:

ORGANIC CHEMISTRY

Preferred Composition: The grease contains generation components of oxide film.

The rust proof oil contains 0.1-20 mass% of organometallic salt(s).

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: BALL ROLL BEARING ELECTROMAGNET CLUTCH COMPRESSOR  
CONTAIN BASE OIL

COMPRISE PRESET AMOUNT RUST PROOF ADDITIVE ADD APPLY  
COMPONENT

DERWENT-CLASS: E19 H07 Q62

CPI-CODES: E10-C03; E10-C04; E10-G02; H07-F; H07-G02;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

M417 M423 M782 Q416

Specific Compounds

RA0218

Registry Numbers

103242

Chemical Indexing M3 \*02\*

Fragmentation Code

J0 J011 J1 J171 M225 M231 M262 M281 M320 M416  
M620 M782 Q416

Specific Compounds

R01147

Registry Numbers

129694 130707 133754 188914 2068 224718 232295

Chemical Indexing M3 \*03\*

Fragmentation Code

G010 G019 G020 G021 G029 G030 G039 G040 G050 G100  
G111 G221 G299 G553 G563 H713 H714 H716 H721 H722  
H731 J0 J011 J131 J151 J171 J231 J241 J251 J261  
J271 M121 M122 M123 M124 M125 M126 M136 M210 M211  
M212 M213 M214 M215 M216 M220 M221 M222 M223 M224  
M225 M226 M231 M232 M233 M262 M272 M280 M281 M320  
M414 M415 M416 M510 M520 M530 M531 M532 M540 M541  
M542 M620 M630 M782 Q416 Q462

Markush Compounds

010709901

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1147U